ealert

Weather Alerts Detail - v3.0
Document Version 1.3.1

Domain Portfolio: Alerts | Domain: Alerts | Usage Classification: Standard

Geography: US, Canada, Japan, Western Europe, Australia, South Korea

Attribution Required: YES

Attribution Requirements: Clients must provide data source attribution on anywhere data is displayed.

The attribution phrase must display: “Issued by <Office Name> - <Office Admin District Code>, <Office Country Code>, <Source>, <Disclaimer>”.

- Example: Issued by National Weather Service - Bismarck, US
- Example: Issued by Central Institute for Meteorology and Geodynamics - Austria, EUMETNET-Meteoalarm, Disclaimer: "Time delays between this website and Meteoalarm.eu are possible. For the most up-to-date information about alert levels as published by the participating National Meteorological Services, please visit Meteoalarm."

Overview

The Weather Alert Details API provides the details for a single requested event for weather watches, warnings, statements and advisories issued by the NWS (National Weather Service), Environment Canada and MeteoAlarm. These weather alerts can provide crucial life-saving information. Weather alerts can be complicated and do not always follow consistent standards, format and rules. The Weather Company (TWC) strives to ensure that the information is consistent from all of the different sources but the content is subject to change whenever there is an update from the authoritative source.

The Weather Alert Details API returns additional details related to Severe Thunderstorms, Tornadoes, Earthquakes, Floods, etc . This API also returns non-weather alerts such as Child Abduction Emergency and Law Enforcement Warnings.

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

Translated Fields:

This TWC API handles the translation of phrases. However, when formatting a request URL a valid language must be used (see **The Weather Company Data | API Common Usage Guide)**

- countryName
- disclaimer
- headlineText
- eventDescription
- officeAdminDistrict

NOTE: In order to use this API, user must FIRST do the following:
1) Run **Weather Company Data - Core - v3 - Alerts - Weather Alerts - Headlines**
2) Obtain a ‘**detailKey’** from running the operation above
3) Use the obtained ‘**detailKey’** as the required parameter **‘alertId’** in running this API

URL Construction

Atomic API URL Examples:	**Aggregate Product Name**	v3alertsDetail* (See note at end of document)
Request by Alert ID: **Required Parameters:** alertId, format, language, apiKey https://api.weather.com/v3/alerts/detail?**alertId**=<**alertId**>&format=json&language=en-US&apiKey=**yourApiKey**		
https://api.weather.com/v3/alerts/detail?alertId=c092289d-1282-318a-b0c6-ab4c95ee3c57&format=json&language=en-US&apiKey=**yourApiKey**		

Weather Alert Narrative Text and Language Support

Beyond the translated fields indicated above, language returned is not determined by TWC API but by the nation where alert is located. Language Codes supported for each country appear in the table below:

Country	Language	Language Code Parameter
United States	US English, Mexico Spanish (limited distribution)	en-US, es-MX
Austria	Austrian German, UK English	de-DE, en-GB
Australia	Australian English, US English	en-AU, en-US
Belgium	Dutch, Belgium French, German, UK English	nl-BE ,fr-BE, de-DE, en-GB
Bosnia-Herzegovina	Bosnian, UK English	bs-BA, en-GB
Bulgaria	UK English, Bulgarian	en-GB, bg-BG
Canada	Canadian English, Canadian French	en-CA, fr-CA
Croatia	UK English, Croatian	en-GB, hr-HR
Cyprus	Greek, Turkish	el-GR,tr-TR
Czech Republic	UK English, Czech	en-GB, cs-CZ
Denmark	Danish, UK English	da-DK, en-GB
Estonia	UK English, Estonian, Russian	et-EE, en-GB, ru-RU
Finland	Finnish, Swedish, UK English	fi-FI, sv-FI, en-GB
France	French France, UK English	fr-FR, en-GB
Germany	German, UK English, French France, Spanish Spain	de-DE, en-GB, fr-FR, es-ES
Greece	Greek, UK English	el-GR, en-GB
Hungary	UK English, Hungarian	en-GB hu-HU

Iceland	Icelandic, UK English	is-IS, en-GB
Ireland	UK English	en-GB
Israel	UK English, Hebrew	en-GB, he-IL
Italy	Italian, UK English	it-IT, en-GB
Japan	Japanese	ja-JP
Latvia	Latvian, UK English	lv-LV, en-GB
Lithuania	Lithuanian, UK English	lt-LT, en-GB
Luxembourg	German, France French, UK English	de-DE, fr-FR, en-GB
Macedonia	Macedonian, UK English	mk-MK, en-GB
Malta	UK English	en-GB
Moldova	Romanian	en-GB
Montenegro	UK English	en-GB
Netherlands	Dutch, UK English	nl-NL, en-GB
Norway	Norwegian, UK English	no-NO, en-GB
Poland	UK English, Polish	en-GB, pl-PL
Portugal	Portuguese, UK English	pt-PT, en-GB
Romania	Romanian, UK English	ro-RO, en-GB
Serbia	UK English, Serbian	en-GB, sr-RS
Slovakia	UK English, Slovak	en-GB, sk-SK
Slovenia	Slovenian, UK English	sl-SI, en-GB
South Korea	Korean	ko-KR
Spain	Spain Spanish, UK English	es-ES, en-GB
Sweden	Swedish, UK English	sv-SE, en-GB
Switzerland	UK English	en-GB
United Kingdom	UK English	en-GB

Data Elements & Definitions

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

Field Name	Description	Type	Range	Sample	Nulls Allowed

"alertDetail.object"		object			N
adminDistrict	Admin district name	string		Montana	Y
adminDistrictCode	Admin district code	string		MT	Y
areaId	Location code for a location where the event occurs.	string		MTC035	N
areaName	Mixed case location name	string		Glacier	N
areaTypeCode	This identifies type of location.	string	C = county Z = zone CLC=Canada Location	C	N
certainty	Certainty text	string	Observed – Determined to have occurred or to be ongoing Likely - Likely (p > ~50%) Possible - Possible but not likely (p <= ~50%) Unlikely - Not expected to occur (p ~ 0) Unknown - Certainty unknown	Observed	N
certaintyCode	Certainty code	integer	1 - Observed 2 - Likely 3 - Possible 4 - Unlikely 5 - Unknown	1	N
countryCode	country code of the location	string		US	N
countryName	country name	string		UNITED STATES OF AMERICA	N
detailKey	detail record key	string		77128ec9-cebe-46b2-8d72-d1f6860454e7	N
disclaimer	Disclaimer for data	string		null	Y
effectiveTimeLocal	The effective date and time of the information in the alert message.	string	valid date	2017-10-07T12:30:00-05:00	Y
effectiveTimeLocalTimeZone	Time Zone Abbreviation for effective time	string	valid timezone	EDT	Y
eventDescription	Event Description	string		Tornado Warning	N
eventTrackingNumber	Event Tracking Number	string	4 digit number or a checksum	160	N
expireTimeLocal	The expire date and time of the information in the alert message.	string	valid date	2017-10-07T19:30:00-05:00	N
expireTimeLocalTimeZone	Time Zone Abbreviation	string	valid timezone	EDT	N
expireTimeUTC	Expire date and time in UTC	epoch	valid Epoch time	1373914800	N
headlineText	Headline text of an event for the location	string	{event} is in effect {event} until {DOW HH:MM AM/PM TZCODE} {event} from {DOW HH:MM AM/PM TZCODE} until {DOW HH:MM AM/PM TZCODE}	Flood Warning until SAT 12:30PM CDT	N
ianaTimeZone	IANA time code	string	Valid timezone	America/Chicago	Y
identifier	This is the checksum value uniquely identifies a bulletin	string	checksum	a463d8adbd563a981673b1beab2b04994e80078a	N
issueTimeLocal	Alert issuance time	string	valid date	2017-10-07T11:30:00-05:00	N
issueTimeLocalTimeZone	Time zone Abbreviation	string	valid timezone	CDT	N
latitude	centroid latitude of a location where the event occurs.	decimal		48.65	Y
longitude	centroid longitude of a location where event occurs.	decimal		-113.13	Y

messageType	The nature of the alert message	string	New - Initial information Update - Updates existing message Cancel - Cancels the earlier message	New	N
messageTypeCode	The nature of the alert message code	integer	1 - New 2 - Update 3 - Cancel	2	N
officeAdminDistrict	Office Admin District	string		Montana	Y
officeAdminDistrictCode	Issuing Office State Code	string		MT	Y
officeCode	Issuing Office code	string		KTFX	N
officeCountryCode	Issuing Office Country Code	string		US	Y
officeName	Issuing Office Name	string		Great Falls	Y
onsetTimeLocal	The onset date and time of the information in the alert message. (Canada only)	string	valid date	2017-10-07T17:30:00-05:00	Y
onsetTimeLocalTimeZone	Time Zone Abbreviation for onset time	string	valid timezone	EDT	Y
phenomena	Phenomena code of an event	string		TO	N
processTimeUTC	Alert process time in SUN	integer	valid unix time UTC	1475863030000	N
productIdentifier	Product Line Identifier	string	Refer Inbound PIL/Event Tab	TOR	N
severity	Severity of the subject event of the alert message	string	Extreme - Extraordinary threat to life or property Severe - Significant threat to life or property Moderate - Possible threat to life or property Minor – Minimal to no known threat to life or property Unknown - Severity unknown	Severe	N
severityCode	Severity code of the subject event of the alert message	integer	1 - Extreme 2 - Severe 3 - Moderate 4 - Minor 5 - Unknown	1	N
significance	Equated to Type - such as a Watch, Warning or Advisory	string		W	N
source	Originating source of alert	string		NWS	N
synopsis	Brief summary	string		*text too large to display here	Y
urgency	Urgency text	string	Immediate - Responsive action SHOULD be taken immediately Expected - Responsive action SHOULD be taken soon (within next hour) Future - Responsive action SHOULD be taken in the near future Past - Responsive action is no longer required Unknown - Urgency not known	Expected	N
urgencyCode	Urgency code	integer	1 - Immediate 2 - Expected 3 - Future 4 - Past 5 - Unknown	2	N
endTimeLocal	the date and time that a alert is expected to end. It may be null for indefinitely long events (in which case the headline will indicate that the event is “in effect”)	string	Valid date	2021-10-04T16:30:00-04:00	Y

endTimeLocalTimeZone	the time zone for endTimeLocal	string	Valid timezone	EDT	Y
endTimeUTC	the end date and time in UTC	integer	Valid unix time UTC	1633379400	Y
"categories.object"		object			N
category	The category description of the subject event of the alert message	string	Geo - Geophysical (inc. landslide) Met - Meteorological (inc. flood) Safety - General emergency and public safety Security - Law enforcement, military, homeland and local/private security Rescue - Rescue and recovery Fire - Fire suppression and rescue Health - Medical and public health Env - Pollution and other environmental Transport - Public and private transportation Infra - Utility, telecommunication, other non-transport infrastructure CBRNE – Chemical, Biological, Radiological, Nuclear or High-Yield Explosive threat or attack Other - Other events	Met	N
categoryCode	The code denoting the category of the subject event of the alert message	integer	1 - Geo 2 - Met 3 - Safety 4 - Security 5 - Rescue 6 - Fire 7 - Health 8 - Env 9 - Transport 10 - Infra 11 - CBRNE 12 - Other	2	N
"responseTypes.object"		object			N
responseType	Description of action recommended for the target audience	string	Shelter – Take shelter in place or per instruction Evacuate – Relocate as instructed in the instruction Prepare – Make preparations per the instruction Execute – Execute a pre-planned activity identified in instruction Avoid – Avoid the subject event as per the instruction Monitor – Attend to information sources as described in instruction Assess – Evaluate the information in this message. (This value SHOULD NOT be used in public warning applications.) AllClear – The subject event no longer poses a threat or concern and any follow on action is described in <instruction> None – No action recommended	Evacuate	N
responseTypeCode	The code denoting the type of action recommended for the target audience	integer	1 - Shelter 2 - Evacuate 3 - Prepare 4 - Execute 5 - Avoid 6 - Monitor 7 - Assess 8 - AllClear 9 - None	2	N

"flood.object"		object			Y
floodCrestTimeLocal	Flood Crest date time	string	valid date	2017-10-07T21:30:00-05:00	Y
floodCrestTimeLocalTimeZone	Flood crest date time zone abbeviation	string	valid timezone	EDT	Y
floodEndTimeLocal	Flood End date time	string	valid date	2017-10-07T23:30:00-05:00	Y
floodEndTimeLocalTimeZone	Flood end date time zone abbeviation	string	valid timezone	EDT	Y
floodImmediateCause	Flood Immediate Cause description	string	Excessive Rainfall Snowmelt Rain and Snowmelt Dam or Levee Failure Ice Jam Glacier-Dammed Lake Outburst Rain and/or Snowmelt and/or Ice Jam Upstream Flooding plus Storm Surge Upstream Flooding plus Tidal Effects Elevated Upstream Flow plus Tidal Effects Wind and/or Tidal Effects Upstream Dam or Reservoir Release Other Multiple Causes Other Effects Unknown	Excessive Rainfall	Y
floodImmediateCauseCode	Flood Immediate Cause code	string	ER Excessive Rainfall SM Snowmelt RS Rain and Snowmelt DM Dam or Levee Failure IJ Ice Jam GO Glacier-Dammed Lake Outburst IC Rain and/or Snowmelt and/or Ice Jam FS Upstream Flooding plus Storm Surge FT Upstream Flooding plus Tidal Effects ET Elevated Upstream Flow plus Tidal Effects WT Wind and/or Tidal Effects DR Upstream Dam or Reservoir Release MC Other Multiple Causes OT Other Effects UU Unknown	NO	Y
floodLocationId	Flood Location Identifier code	string	Any Valid NWS flood location identifier	SMBM8	Y
floodLocationName	Flood Location Identifier Name	string	Any valid NWS flood location identifier or N/A	Saint Mary River at International boundary	N
floodRecordStatus	Flood Record Status description	string	A record flood is not expected Near record or record flood expected Flood without a period of record to compare For areal flood warnings, areal flash flood products, and flood advisories (point and areal) N/A	Near record or record flood expected	N
floodRecordStatusCode	Flood Record Status code	string	NO A record flood is not expected NR Near record or record flood expected UU Flood without a period of record to compare OO For areal flood warnings, areal flash flood products, and flood advisories (point and areal)	NR	Y
floodSeverity	Flood Severity Description	string	None	1	Y

			N/A Minor Moderate Major Unknown		
floodSeverityCode	Flood Severity Code	string	N None 0 N/A 1 Minor 2 Moderate 3 Major U Unknown	0	Y
floodStartTimeLocal	Flood Start date Time	string	valid date	2017-10-07T20:30:00-05:00	Y
floodStartTimeLocalTimeZone	Flood start date time zone abbreviation	string	valid timezone	EDT	Y
"texts.object"		object			Y
description		string		* text too large to display here	Y
instruction		string		* text too large to display here	Y
languageCode	language for texts	string	See documents for supported languages	en-US	Y
overview		string		* text too large to display here	Y
"polygon.object"	**Deprecated - replaced by geospatialShapes**	object			Y
lat	latitude	decimal		48.65	Y
lon	longitude	decimal		-113.13	Y
"geospatialShapes.object"	GeoJSON shape that can contain multiple polygons or circles for an alert. Currently only select European countries can include multiple polygons.	object			Y
See https://geojson.org/				Shown below	
“supplement.object”		object			Y
Supplement key value	Key value for additional warning information	string	See https://twcapi.co/v3WADSO	tornado	Y
Supplement value	Value for additional warning information	string	See https://twcapi.co/v3WADSO	RADAR INDICATED	Y

JSON Sample


```
{
  "alertDetail": {
    "detailKey": "72ea0b30-d298-304c-b24a-e3cab8838dad",
    "messageTypeCode": 1,
    "messageType": "New",
    "productIdentifier": "IWW",
    "phenomena": "TWA",
    "significance": "S",
    "eventTrackingNumber": "0925",
    "officeCode": "EUSI",
    "officeName": "Meteorological Office - Slovenia",
```

```
  "officeAdminDistrict": null,
  "officeAdminDistrictCode": null,
  "officeCountryCode": "SI",
  "eventDescription": "Potential disruption due to wind",
  "severityCode": 3,
  "severity": "Moderate",
  "categories": [
   {
    "category": "Met",
    "categoryCode": 2
   }
  ],
  "responseTypes": [
   {
    "responseType": "Shelter",
    "responseTypeCode": 1
   }
  ],
  "urgency": "Future",
  "urgencyCode": 3,
  "certainty": "Likely",
  "certaintyCode": 2,
  "effectiveTimeLocal": "2023-09-25T08:51:00+02:00",
  "effectiveTimeLocalTimeZone": "CEST",
  "expireTimeLocal": "2023-09-25T23:59:00+02:00",
  "expireTimeLocalTimeZone": "CEST",
  "expireTimeUTC": 1695679140,
  "onsetTimeLocal": "2023-09-25T06:00:00+02:00",
  "onsetTimeLocalTimeZone": "CEST",
  "flood": null,
  "areaTypeCode": "Z",
  "latitude": 45.78,
  "longitude": 15.09,
  "areaId": "SI010",
  "areaName": "Slovenija - jugovzhod / SE",
  "ianaTimeZone": "Europe/Ljubljana",
  "adminDistrictCode": null,
  "adminDistrict": null,
  "countryCode": "SI",
  "countryName": "SLOVENIA",
  "headlineText": "Potential disruption due to wind from MON 8:51 AM CEST until MON 11:59 PM CEST",
  "source": "EUMETNET - MeteoAlarm",
  "disclaimer": "Time delays between this website and <a href=https://meteoalarm.org/>meteoalarm.org</a> are possible. For the most up-to-date information about alert levels as published by the participating National Meteorological Services, please visit <a href=https://meteoalarm.org/>Meteoalarm</a>.",
```

```
  "issueTimeLocal": "2023-09-25T08:55:22+02:00",
  "issueTimeLocalTimeZone": "CEST",
  "identifier": "56d85bad24b4284db2743fc6b019272c",
  "processTimeUTC": 1695625272,
  "endTimeLocal": "2023-09-25T23:59:00+02:00",
  "endTimeLocalTimeZone": "CEST",
  "endTimeUTC": 1695679140,
  "texts": [
    {
      "languageCode": "en-GB",
      "description": "Maximum wind speed : from 70 to 85 km/h. Wind sways trees and may break branches. It impedes road traffic of certain categories and may hinder movement to some extent. The sea is fairly rough (3).",
      "instruction": "Before the event:\nClose all windows and doors. Stow or fasten anything that could be carried away by the wind. Check the situation of vessels in berths.\n\nDuring the event:\nDoors and windows should be kept closed. When moving in the open, pay attention to possible falling objects. Stop all work at heights. Do not repair damage during the event. We recommend additional caution in traffic, especially in crosswinds and in exposed areas (e.g. bridges, cuttings). Caution is recommended in water sports. Less skilled sailors should not sail out. Swimmers should stay close to the shore.",
      "overview": null
    },
    {
      "languageCode": "sl-SI",
      "description": "Maksimalna hitrost vetra : od 70 do 85 km/h. Veter maje drevesa in lahko že lomi veje. Ovira cestni promet določenih kategorij in lahko že nekoliko otežuje gibanje. Morje je zmerno vzvalovano (3).",
      "instruction": "Vrata in okna naj bodo zaprta. Na prostem se ne zadržujte na potencialno nevarnih mestih. Priporočamo dodatno previdnost v prometu. Priporočamo previdnost na morju.",
      "overview": null
    }
  ],
  "polygon": [
    {
      "lat": 46.038,
      "lon": 14.198
    },
    {
      "lat": 46.013,
      "lon": 14.153
    },
    {
      "lat": 45.926,
      "lon": 14.104
    } # Abridged for display purposes
  ],
  "synopsis": null,
  "supplement": null,
  "geospatialShapes": {
    "type": "FeatureCollection",
    "features": [
```

```
      {
        "type": "Feature",
        "properties": {},
        "geometry": {
          "type": "Polygon",
          "coordinates": [
            [
              [
                14.198,
                46.038
              ],
              [
                14.153,
                46.013
              ],
              [
                14.104,
                45.926
              ] # Abridged for display purposes
            ]
          ]
        }
      }
    ]
  }
}
```

Significance Codes

Code	Description
A	Watch
B	Bulletin
L	Local Alerts
M	Message
O	Outlook
R	Report
S	Statement

W	Warning
Y	Advisory

JMA Significance Codes

Code	Description
Y	Advisory
W	Warning
E	Extreme

Alerts Event, Phenomena, Significance, & Threat Levels - See Weather Alerts - Headlines- v3: https://twcapi.co/v3WAH

*Note: Aggregate Product Name only works for this API if used in conjuction with an API that makes active use of TWC Location Services

Tsunami Zones Exceptions:

Tsunami warnings are issued by **Joint Australian Tsunami Warning Centre (JATWC)** for Australian coastal locations and offshore territories. It also issues warnings for Antarctica. Below are some of the locations for which country code is not Australia for which JATWC issues tsunami warnings.

Islands in Australia:

These have a different ISO code than mainland Australia. It should be noted that when using “Alerts By Country” API and using code as “AU” will not return alerts for these islands.

Zone ID	Zone Name	Zone Type	ISO Country Code	Geocode
CC_TW001	Cocos Island	Tsunami	CC	-12.1131, 96.8830
CX_TW001	Christmas Island	Tsunami	CX	-10.4132, 105.6670
NF_TW001	Norfolk Island	Tsunami	NF	-29.0624, 167.9330
NSW_PT245	Norfolk Island	PointPlaces	NF	-29.0389, 167.9408

Antarctica:

For these locations, Location Master will not resolve the geocode to any location. There are no mappings defined for these geocodes and therefore “Alerts By Geocode” will not return any data for these locations. Alerts will return data for these locations when using “Alerts By Country” and “Alerts By Area”.

Zone ID	Zone Name	Zone Type	ISO Country Code	Geocode
AQ_TW001	Antarctica	Tsunami	AQ	-67.6012, 62.8752
AQ_TW002	Antarctica	Tsunami	AQ	-66.2820, 110.5230
AQ_TW003	Antarctica	Tsunami	AQ	-68.5769, 77.9671

Alert Event, Phenomena, Significance, & Threat Levels

For a listing of of Event, Phenomena, Significance and Threat Levels see the document API - Standard - Weather Company Data - Core - v3 - Alerts - Weather Alerts - Headlines